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|     |     |    |      |    |

Application/Control No.

Applicant(s)/Patent under Reexamination

10/619,672

**COWLEY ET AL.** 

Examiner

Art Unit

Nguyen T. Vo

2685

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N Interference

Appeal 0 Objected

|              |  | Det-           |          |  |          |          |           |  |  |  |
|--------------|--|----------------|----------|--|----------|----------|-----------|--|--|--|
| Cla          | ım   | Date           |          |  |          |          |           |  |  |  |
| Final        | Original   | 3/9/8          |          |  |          |          |           |  |  |  |
| 7            | 1  | =              |          |  |          |          |           | _  |  | -  |
| Z            | 1<br>2<br>3  | -              |          | -  | -        | _        |           | $\dashv$   |  | _  |
| 3            | ~  | =              | -        |  |          |          | _         | -  |  | -  |
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| -            | 5  | -              | _        |  |          | _        |           | _  | -  | -  |
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| 3            | 4<br>5<br>6<br>7   | 1              | _        | -  |          |          |           | -  | _  |  |
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|              | 9  |                |          |  |          |          |           |  | _  | $\vdash$   |
|              | 10   |                |          |  |          | _        |           | -  |  |  |
|              | 11   |                |          |  |          |          | _         |  |  |  |
|              | 12   |                |          |  |          |          |           |  |  |  |
|              | 13   |                |          |  | -        |          |           | $\Box$   |  |  |
|              | 14   | $\Box$         |          |  |          |          |           |  |  |  |
|              | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19       | $\Box$         |          |  |          |          |           |  |  | $\vdash$   |
|              | 16   |                |          |  |          |          |           |  |  |  |
|              | 17   |                |          |  |          |          |           |  |  |  |
|              | 18   |                |          |  |          |          |           |  |  |  |
|              | 19   |                |          |  |          | _        |           |  |  |  |
|              | 20   |                |          |  |          |          |           |  |  |  |
|              | 21   |                |          | _  |          |          |           |  |  |  |
|              | 22   |                |          |  |          | _        |           |  |  |  |
|              | 23   |                |          |  |          |          |           |  |  |  |
|              | 21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30 |                |          |  |          |          |           |  |  |  |
| L            | 25   |                |          |  |          |          |           |  | ľ  |  |
|              | 26   |                |          |  | L.,      |          |           |  |  | <u> </u>   |
|              | 27   | <u></u>        |          |  |          |          |           |  |  |  |
| <u> </u>     | 28   | L.             |          |  |          |          |           |  |  |  |
|              | 29   |                |          |  |          |          |           |  |  | ļ  |
|              | 30   |                |          |  |          |          |           |  |  | <u> </u>   |
|              | 31   |                |          |  |          |          |           |  |  |  |
|              | 32<br>33   |                |          |  |          |          |           |  | _  | <u> </u>   |
| $\vdash$     | 33   | $\vdash$       |          |  |          |          | <b></b> . | <u> </u>   | <u> </u>   | <u> </u>   |
| <u> </u>     | 34   | $\vdash$       |          | <del> </del>                                     | <u> </u> | H        |           | <u> </u>   | <u> </u>   | _  |
| -            | 35<br>36   | $\vdash$       | H        | <u> </u>   | $\vdash$ | $\vdash$ |           |  | <u> </u>   | <u> </u>   |
| <del> </del> | 37   |                |          |  | H        | $\vdash$ |           | ⊢  | -  | <u> </u>   |
| $\vdash$     | 38   | $\vdash$       | $\vdash$ | $\vdash$   |          |          |           | $\vdash$   | $\vdash$   |  |
|              | 39   | <del>  -</del> | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$ | H         | -  | $\vdash$   | $\vdash$   |
|              | 40   | Н              | $\vdash$ | $\vdash$   | -        |          |           | $\vdash$   | -  | $\vdash$   |
|              | 41   | ┢┈             | $\vdash$ |  | $\vdash$ |          | <u> </u>  | <del>                                     </del> | Н  | $\vdash$   |
|              | 42   | Τ-             |          |  |          | $\vdash$ | _         | <u> </u>   | Н  | H  |
|              | 43   | T              |          |  | _        | $\vdash$ |           |  | <del>                                     </del> | $\vdash$   |
|              | 44   |                | $\Box$   |  |          |          |           |  |  | Г  |
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|              | 46   | T              |          |  |          |          |           | Г  | Г  | <del>                                     </del> |
|              | 47   |                |          |  | _        |          |           |  |  | Г  |
|              | 48   |                |          |  |          |          |           | $\vdash$   | <del>                                     </del> | Г  |
|              | 49   |                |          |  |          |          | $\vdash$  |  |  |  |
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|         | Date         | 3        |              | _          |          |     | Cla   | im       | Date   |   |   |          |          |          |          |          |   |
|---------|--------------|----------|--------------|------------|----------|-----|-------|----------|--------|---|---|----------|----------|----------|----------|----------|---|
|         |              |          |              |            |          |     |       | <u>_</u> |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     | Final | Original |        |   |   |          |          |          |          |          | l |
|         |              |          |              |            |          |     | ίΞ    | Ç        |        | 1 |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       |          |        |   |   |          |          |          |          |          | l |
|         |              |          |              |            |          |     |       | 51       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 52       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 53       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          | ] [ |       | 54       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 55       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 56       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 57       |        |   |   |          |          |          |          |          |   |
|         |              |          |              | _          |          |     |       | 58       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 59       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 60       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 61       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 62       |        |   |   |          |          |          |          |          |   |
|         | <u> </u>     |          |              |            |          |     |       | 63       |        |   |   |          |          |          |          |          |   |
|         | <u>L</u> .   |          |              |            |          |     |       | 64       |        |   |   |          |          |          |          |          |   |
| $\perp$ | Ц_           |          |              |            |          |     |       | 65       | ]      |   |   |          |          | $\Box$   |          |          |   |
|         |              |          | L            |            |          |     |       | 66       |        |   |   |          |          |          |          |          |   |
|         | <u> </u>     |          |              |            |          |     |       | 67       |        |   |   |          |          |          |          |          |   |
|         | L            |          |              |            |          |     |       | 68       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 69       |        |   |   |          |          |          |          |          |   |
| _       |              |          |              |            |          |     |       | 70       |        |   |   |          |          |          |          |          |   |
|         | L            |          |              |            |          |     |       | 71       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 72       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 72<br>73 |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 74       |        |   |   |          |          |          |          |          |   |
|         |              |          |              |            |          |     |       | 75       |        |   |   |          |          |          |          |          |   |
|         | <u> </u>     |          |              |            | L        |     |       | 76       |        |   |   |          |          |          |          |          |   |
|         | <u> </u>     |          | L            |            |          |     |       | 77<br>78 |        |   |   |          |          |          |          |          |   |
|         | <u></u>      |          |              |            |          |     |       | 78       |        |   |   |          |          |          |          |          |   |
| Щ.      | <u> </u>     |          |              | L,         | <u> </u> | ]   |       | 79       |        |   |   |          |          |          |          |          |   |
|         | <u> </u>     |          |              |            |          |     |       | 80       |        |   |   |          |          |          |          |          |   |
| _       |              |          |              |            |          | Į   |       | 81       |        |   |   |          |          |          |          |          |   |
| $\bot$  | L.           |          | Ш            | _          | L_       |     |       | 82       |        |   |   |          |          | $\Box$   |          |          |   |
|         | <u> </u>     | L.       | <u> </u>     | L          | <u> </u> |     |       | 83       |        |   |   |          |          |          |          |          |   |
|         | <u> </u>     |          |              |            |          |     |       | 84       |        |   |   |          | <u> </u> |          | ـــــا   |          |   |
| $\bot$  | <u> </u>     | L        | L            | <u> </u>   | <u> </u> |     |       | 85       |        |   |   |          |          | <u> </u> |          |          | Ш |
|         | <u> </u>     |          | L.           |            | _        |     |       | 86       |        |   |   |          |          | L        | _        | _        | Ш |
| $\bot$  | <u> </u>     |          |              | <u> </u>   |          |     |       | 87       | Ш      |   |   | <u> </u> |          | <u> </u> |          | Ш        | Ш |
| $\bot$  | $\vdash$     |          | <u> </u>     | <u> </u>   | <u> </u> |     |       | 88       | Ш      |   |   | Ш        |          | <u> </u> | <u> </u> | L_       | Ш |
| - -     | ₩            |          |              | <u> </u>   | <u> </u> |     |       | 89       | Ш      |   |   | L_       |          |          |          | Ш        | Щ |
| 4       | ऻ_           | <u> </u> | <b> </b>     | <u> </u>   | <u> </u> |     |       | 90       |        |   |   | Ш        |          | <u> </u> | L        | <u> </u> | Ш |
| +       | $\vdash$     | L        | <u> </u>     | <u> </u>   | <u> </u> |     |       | 91       |        |   |   |          |          | <u> </u> | <u> </u> | _        | Ш |
| -       | <del> </del> |          | L.           | <u> </u>   | <u> </u> |     | ļ     | 92       | Щ      |   |   | L        |          | <u> </u> | <u> </u> |          | Щ |
| $\bot$  | ـــ          | <u> </u> | <u> </u>     | <u> </u>   | <u> </u> |     |       | 93       |        |   |   |          | L        | _        | ļ        | <u> </u> | Щ |
| -       |              | <u> </u> |              | <b> </b> _ | <u> </u> |     | ļj    | 94       | Щ      |   | _ |          | _        | <u> </u> | Ь        | <u> </u> | Щ |
| +       | <b> </b>     | <u> </u> |              | <u> </u>   | <u> </u> |     |       | 95       | Щ      |   |   | Щ        | _        | <u> </u> | <u> </u> | <u> </u> | Ш |
| -       | <del> </del> | <u> </u> |              | _          | <u> </u> |     |       | 96       | Щ      |   |   | <u> </u> |          |          |          | <u> </u> | Ш |
| -       | <u> </u>     |          | <u> </u>     | <u> </u>   | <u> </u> |     | ļ     | 97       | Щ      |   |   | $\vdash$ |          | <u> </u> | <u> </u> | <u> </u> | Ш |
| +       | ⊢            | <u> </u> | L.           | <u> </u>   |          |     |       | 98       | $\Box$ |   |   |          | <u> </u> | <u> </u> | <u> </u> |          | Ш |
|         | $\vdash$     | _        | <del> </del> | ├_         | _        |     | L     | 99       | Щ      |   |   | <u> </u> | L        | oxdot    | <u> </u> |          | Ш |
| l       | <u> </u>     | <u> </u> |              | <u> </u>   | L        | J   |       | 100      | L      | L |   | <u> </u> |          |          | <u>L</u> | <u> </u> |   |

| Cl    | Claim Date               |          |              |  |  |                |              |  |          |          |
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| Final | Original                 |          |              |  |  |                |              |  |          |          |
|       | 101                      |          |              |  |  |                |              |  |          | $\dashv$ |
|       | 101<br>102               |          |              |  |  |                | _            |  |          |          |
|       | 103                      | -        |              |  |  |                | -            |  | _        |          |
|       | 104                      | -        |              |  |  |                |              |  | _        | $\dashv$ |
|       | 104<br>105               | $\dashv$ |              |  |  | -              |              | -  |          | $\vdash$ |
|       | 106                      |          |              |  | -  | -              |              |  |          | H        |
|       | 107                      | _        |              | _  |  |                |              |  |          |          |
|       | 108                      |          |              |  | _  |                |              |  |          |          |
|       | 108<br>109<br>110        |          |              | _  |  |                |              |  |          |          |
|       | 110                      |          |              |  |  |                |              |  |          |          |
|       | 111                      |          |              |  |  |                |              |  |          |          |
|       | 112                      |          |              |  |  |                |              |  |          | $\Box$   |
|       | 113                      |          |              |  |  |                |              |  |          |          |
|       | 112<br>113<br>114        |          |              |  |  |                |              |  |          | П        |
|       | 115                      |          |              |  | Г  |                |              |  |          | $\Box$   |
|       | 116                      |          |              |  |  |                |              |  |          | $\Box$   |
|       | 115<br>116<br>117        |          |              |  |  |                |              |  |          |          |
|       | 118                      |          |              |  |  |                |              |  |          |          |
|       | 119                      |          |              |  |  |                |              |  |          | П        |
|       | 120<br>121               |          |              |  |  |                |              |  |          |          |
|       | 121                      |          |              |  |  |                |              |  |          |          |
|       | 122                      |          |              |  |  |                |              |  |          |          |
|       | 122<br>123<br>124<br>125 |          |              |  |  |                |              |  |          |          |
|       | 124                      |          |              |  |  |                |              |  |          |          |
|       | 125                      |          |              | _  |  |                |              |  |          |          |
|       | 126                      |          |              |  |  | L_             |              |  |          | Ш        |
|       | 126<br>127<br>128        |          |              |  |  |                |              |  | L        | Ш        |
|       | 128                      |          |              |  |  | _              |              |  |          | Щ        |
|       | 129                      |          |              | L  | _  | _              |              |  |          | Ш        |
|       | 129<br>130<br>131<br>132 |          |              | _  | _  |                |              |  | _        | Ш        |
|       | 131                      |          |              |  | <u> </u>   |                |              |  |          | Ш        |
|       | 132                      |          |              | _  | _  |                |              |  |          | Щ        |
|       | l 133 l                  |          |              |  |  | _              |              |  |          | Ш        |
|       | 134<br>135               |          |              | <u> </u>   | <u> </u>   | <u> </u>       | <u> </u>     | <u> </u>   | <u> </u> | Ы        |
|       | 135                      |          |              | <u> </u>   | <u> </u>   |                |              | _  |          | Ш        |
|       | 136                      |          | _            | _  | <u> </u>   | <u> </u>       |              |  | <u> </u> | Н        |
|       | 137<br>138<br>139        |          | -            |  | -  | <u> </u>       |              | -  | _        | H        |
|       | 138                      |          | _            | _  | _  | <u> </u>       |              | $\vdash$   |          |          |
|       | 140                      | _        | _            | <u> </u>   | <del> </del>                                     | <del>  -</del> |              | H  | -        | Н        |
|       | 141                      |          |              |  | -  |                |              | $\vdash$   | $\vdash$ | Н        |
|       | 142                      |          |              | <del> </del> -                                   |  |                |              | $\vdash$   | $\vdash$ | Н        |
|       | 143                      | $\vdash$ | <u> </u>     | $\vdash$   | $\vdash$   | -              | -            | $\vdash$   | ├        | Н        |
| -     | 144                      | -        | <u> </u>     | ┢  | $\vdash$   | $\vdash$       | Н—           | $\vdash$   | $\vdash$ | Н        |
|       | 145                      | $\vdash$ | H            | $\vdash$   | -  | -              | <del> </del> | -  | -        | Н        |
|       | 146                      |          |              | $\vdash$   | $\vdash$   | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash$ |
|       | 147                      | $\vdash$ | _            | $\vdash$   | <del>                                     </del> |                | -            |  | -        |          |
|       | 148                      | $\vdash$ |              | $\vdash$   | _  |                |              | $\vdash$   | $\vdash$ | $\vdash$ |
|       | 149                      |          | <del> </del> |  |  |                | $\vdash$     | <del>                                     </del> | ├-       | $\vdash$ |
|       | 150                      | $\vdash$ | -            | <del>                                     </del> | ┢  | ├-             | ⊢            | $\vdash$   | -        | Н        |
|       | <u></u>                  |          |              |  |  |                | Ц_           |  | L_       | لــــا   |